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(54) Title: PRODUCTION OF ZEAXANTHIN BY PHAFFIA

(57) **Abstract:** Disclosed is a process for producing zeaxanthin and β-cryptoxanthin which comprises cultivating a recombinant microorganism which is expressing a β-carotene hydroxylase gene and belonging to the genus *Xanthophyllomyces* (*Phaffia*) in an aqueous nutrient medium under aerobic conditions, and isolating the resulted carotenoids from the cells of said recombinant microorganism or from the cultured broth.

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